

Factor Quadratic Expressions of the Form $x^2 + bx + c$

Date: _____

Notice any patterns when expanding $(x + 6)(x + 2)$

Is there a pattern to “**Factor**”?

RULE: To Factor a polynomial of the form $x^2 + bx + c$, you must find two numbers that multiply to give c and add to give b .
** Always check for a common factor first!!

EX: Factor:

A. $x^2 - x - 30$

B. $x^2 - 18x + 80$

C. $3n^2 + 30n - 72$

D. $x^2 - 8xy - 20y^2$